Supplementary Material

Table S1. Preparation of electrolyte solutions and simulated digestive fluids

			SSF[1] (pH 7)		SGF[2] (pH 7)		SIF[3] (pH 7)	
	Stock concentrations		mL of Stock added to prepare 0.4 L (1.25 x)	Final salt conc. in SSF	mL of Stock added to prepare 0.4 L (1.25 x)	Final salt conc. in SGF	mL of Stock added to prepare 0.4 L (1.25 x)	Final salt conc. in SIF
Salts	g/L	mol/L	mL	mmol/L	mL	mmol/L	mL	mmol/L
KCl	37.3	0.5	15.1	15.1	6.9	6.9	6.8	6.8
KH_2PO_4	68.0	0.5	3.7	3.7	0.9	0.9	0.8	0.8
$NaHCO_3$**	84.0	1.0	6.8	13.6	12.5	25.0	42.5	85.0
NaCl	117.0	2.0	-	-	11.8	47.2	9.6	38.4
$MgCl_2(H_2O)_6$	30.5	0.15	0.5	0.15	0.4	0.12	1.1	0.33
$(NH_4)_2CO_3$	48.0	0.5	0.06	0.06	0.5	0.5	-	-
$CaCl_2(H_2O)_2$	44.1	0.3	-	1.5	-	0.15	-	0.6
H_2O_{up}	-	-	373.84	-	367.0	-	339.2	-

* [1] Simulated salivary fluid; [2] Simulated gastric fluid; [3] Simulated intestinal fluid.

** $CaCl_2(H_2O)_2$ was added before digestion to prevent the formation of precipitation of calcium ions.

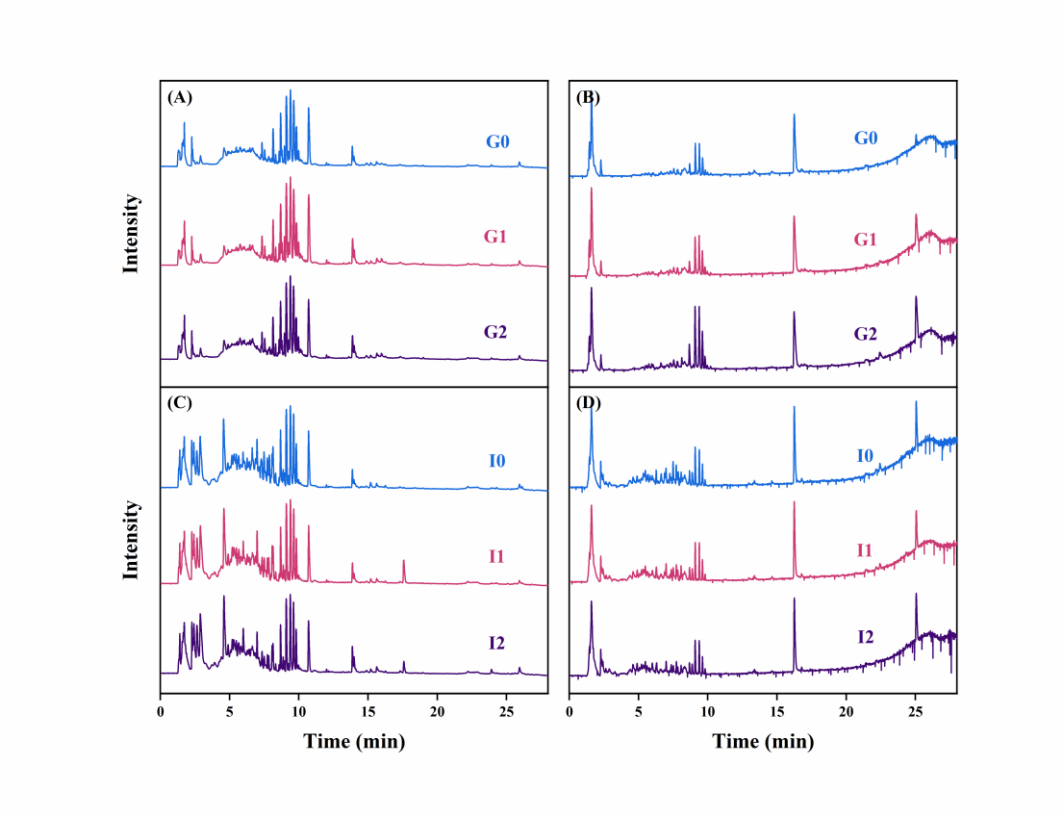
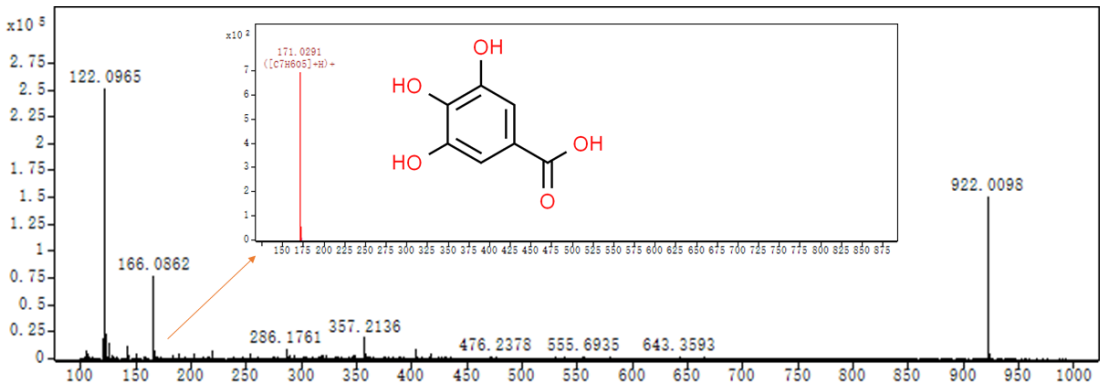


Figure S1. Positive (A, C) and negative (B, D) total ion chromatogram of DJE. G0: Gastric digestion 0 h, G1: Gastric digestion 1 h, G2: Gastric digestion 2 h, I1: Intestinal digestion 1 h, I2: Intestinal digestion 2 h, I4: Intestinal digestion 4 h.



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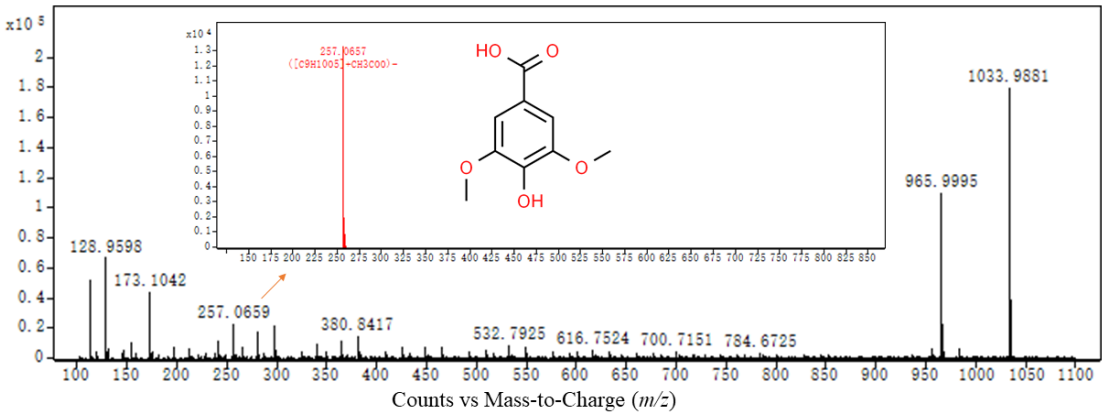

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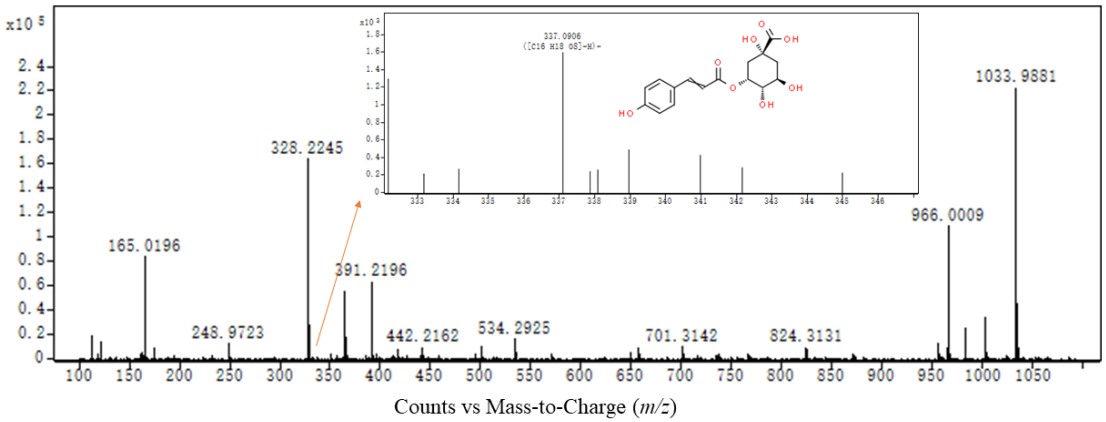

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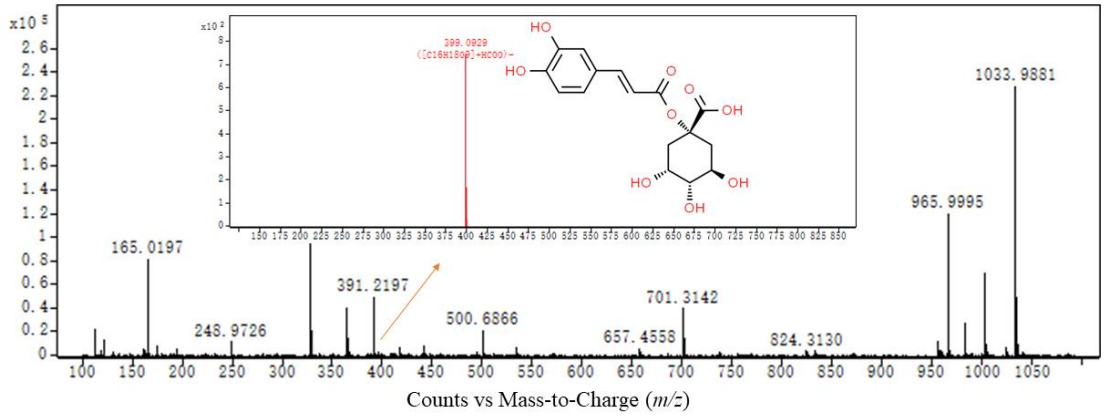

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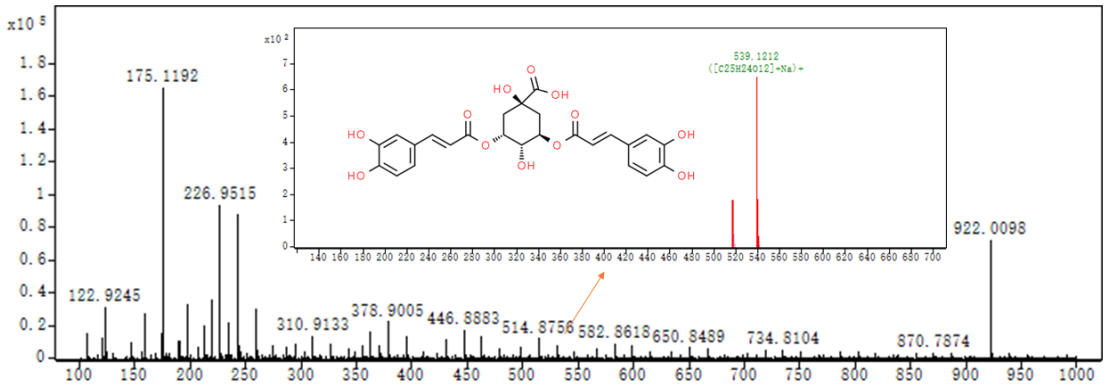

Counts vs Mass-to-Charge (*m/z*)

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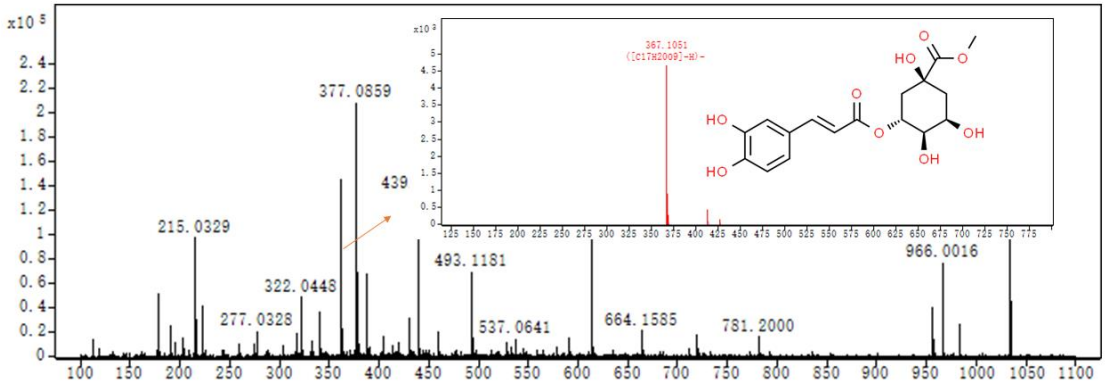

Counts vs Mass-to-Charge (*m/z*)

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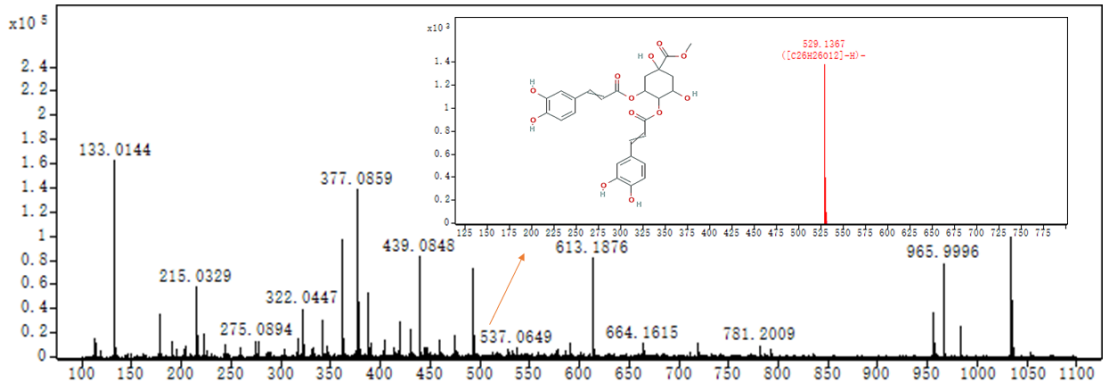

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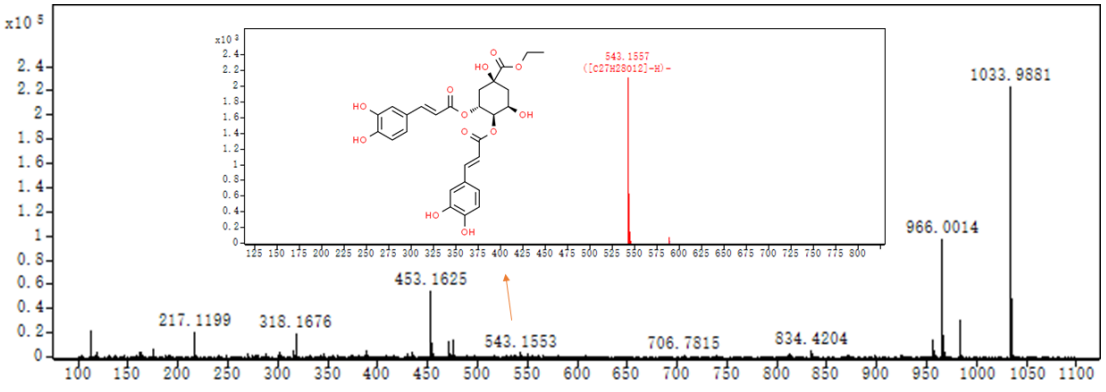

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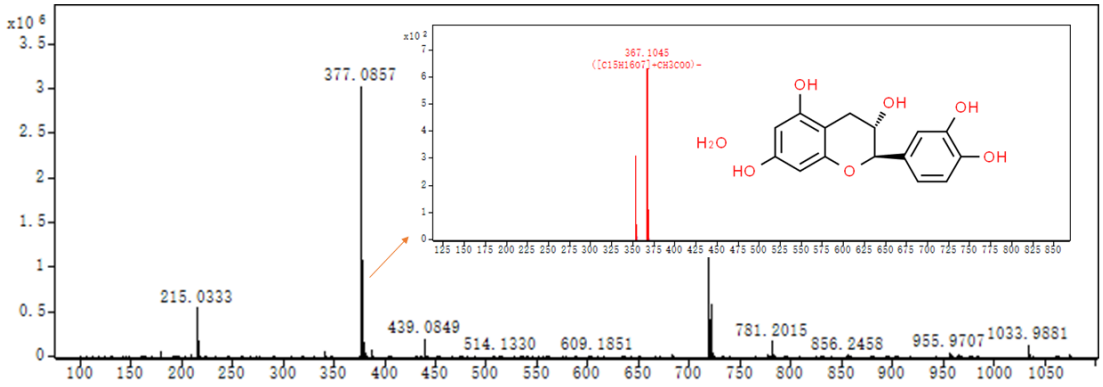

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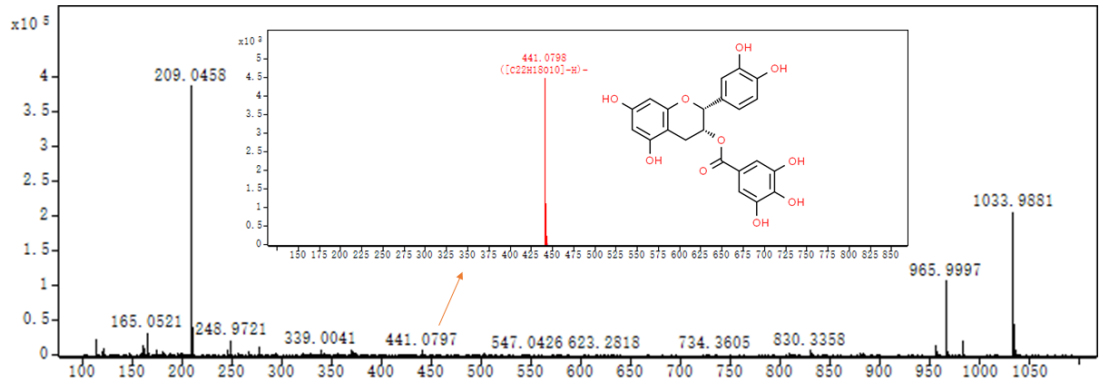

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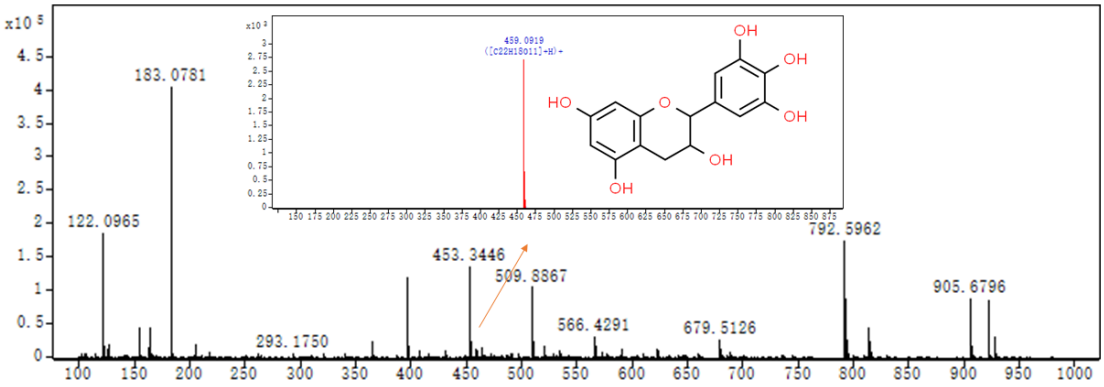

Counts vs Mass-to-Charge (*m/z*)

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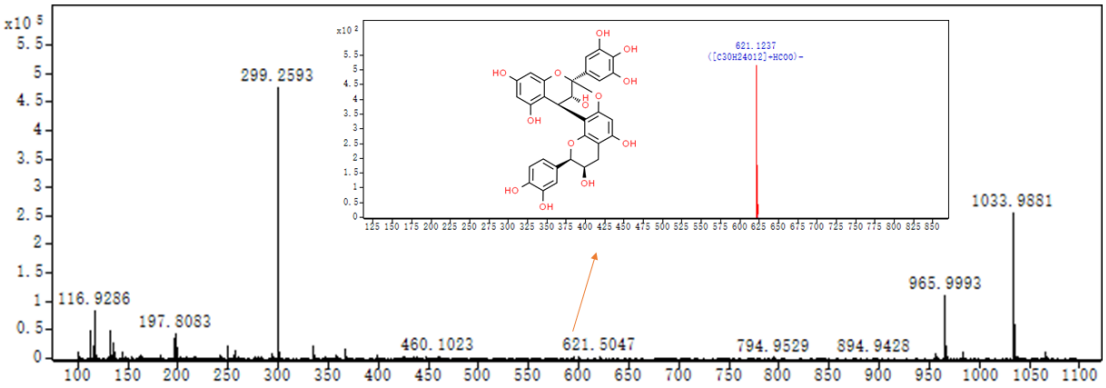

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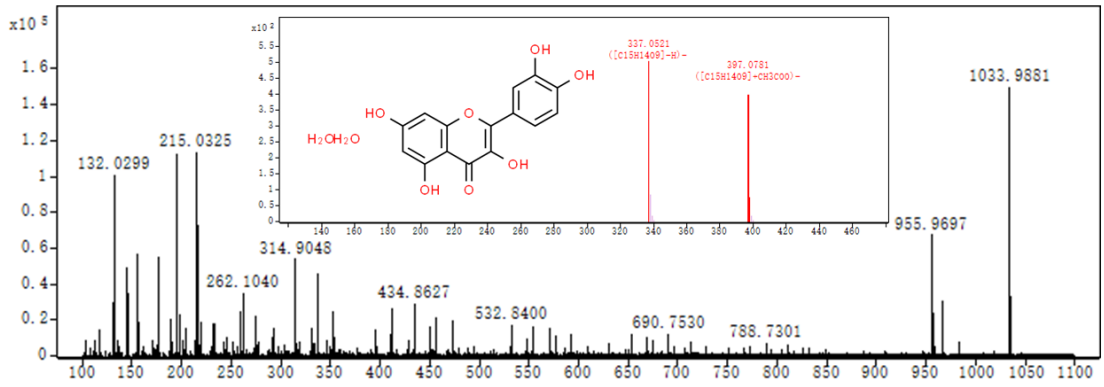

Counts vs Mass-to-Charge (*m/z*)

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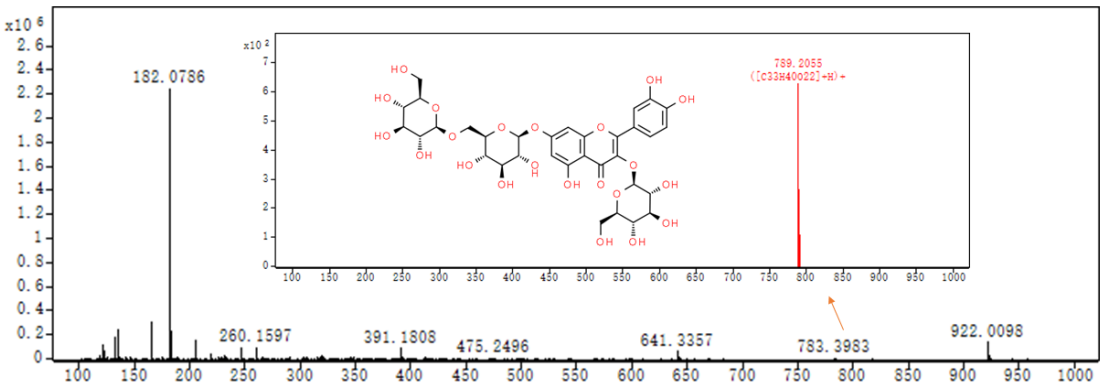

Counts vs Mass-to-Charge (*m/z*)

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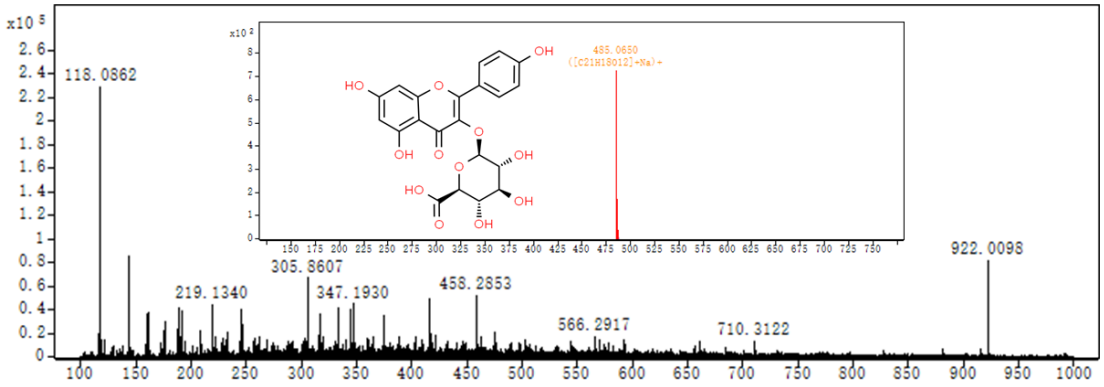

Counts vs Mass-to-Charge (*m/z*)

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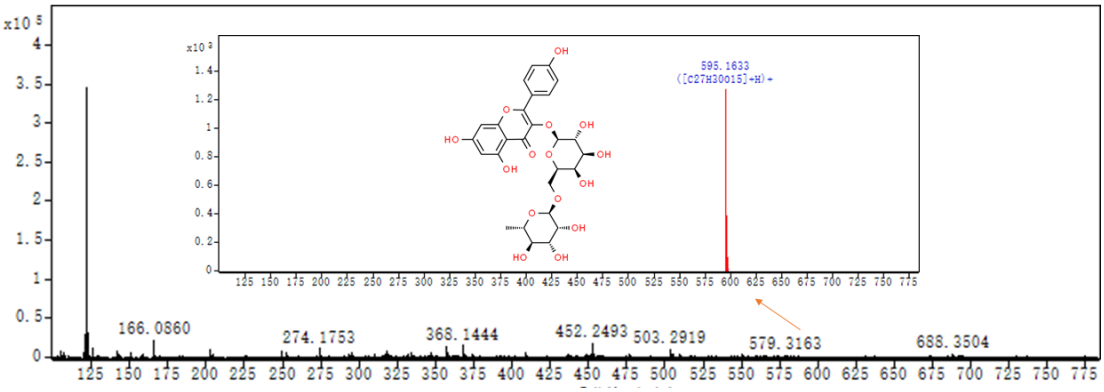

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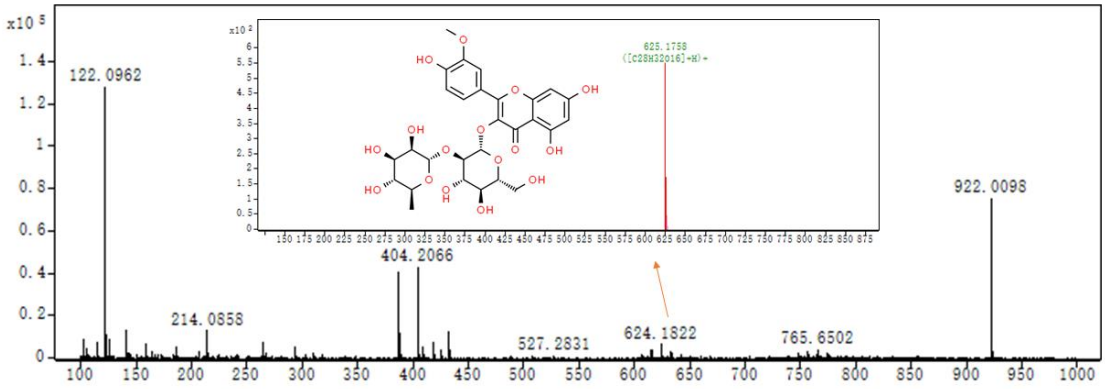

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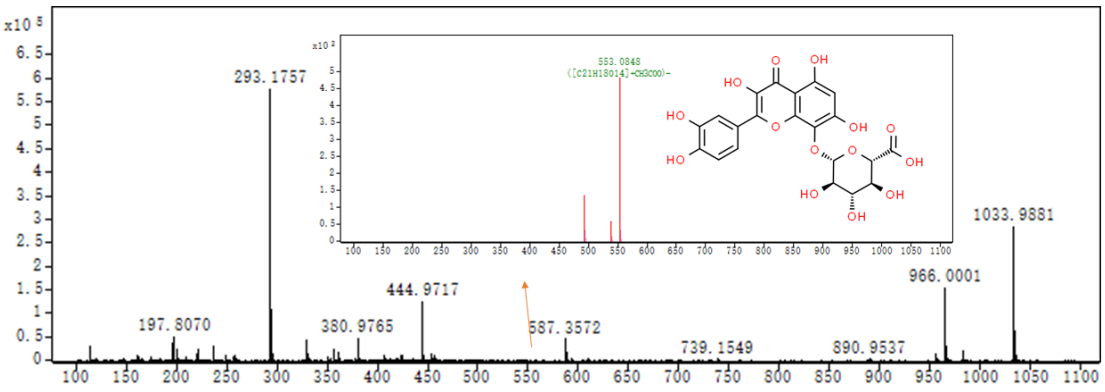

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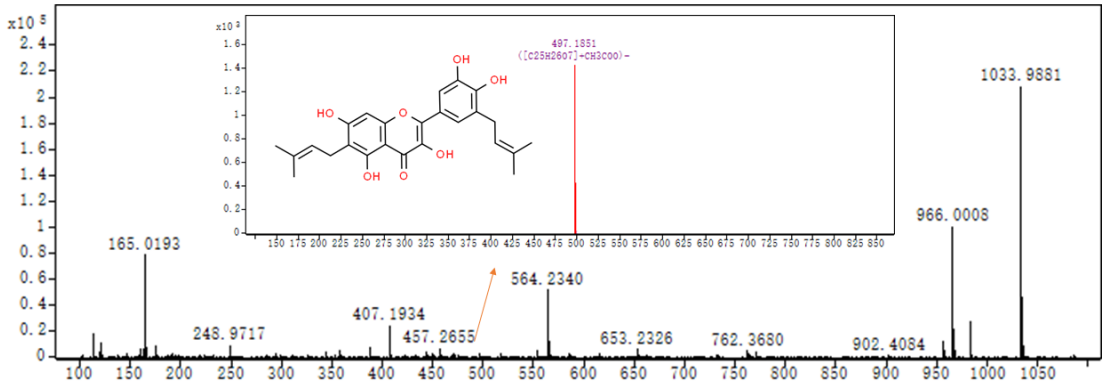

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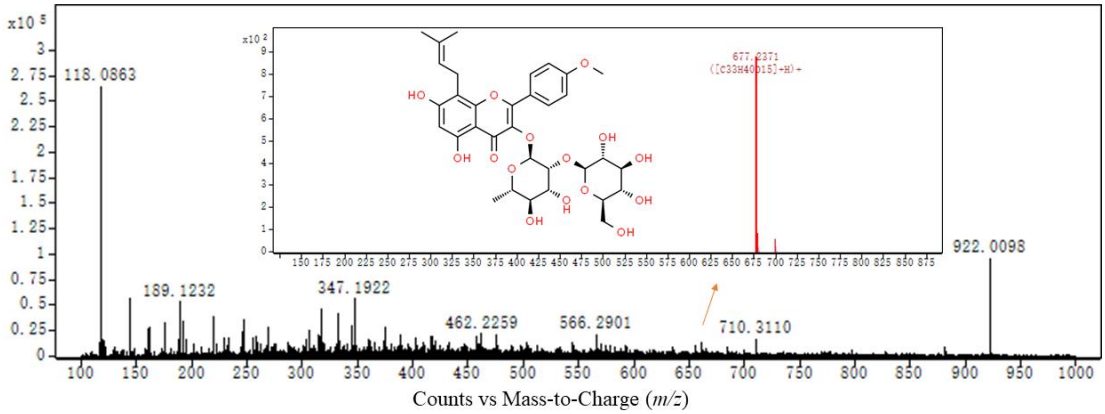

Counts vs Mass-to-Charge (*m/z*)

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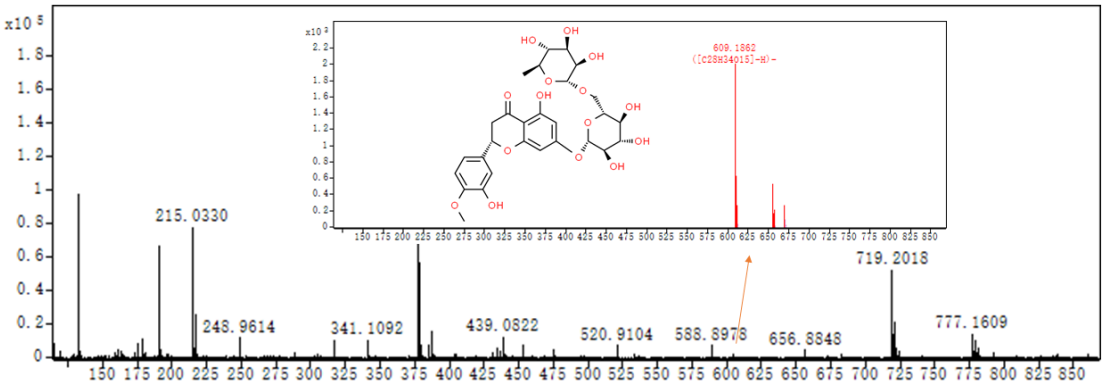

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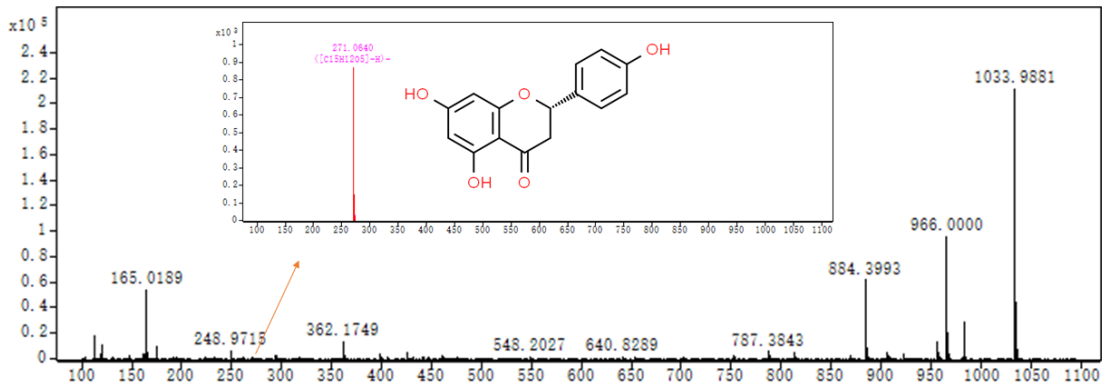

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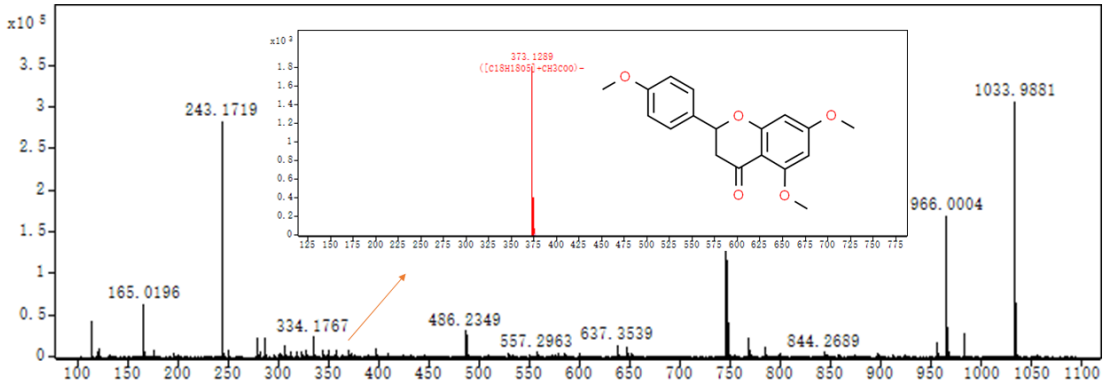

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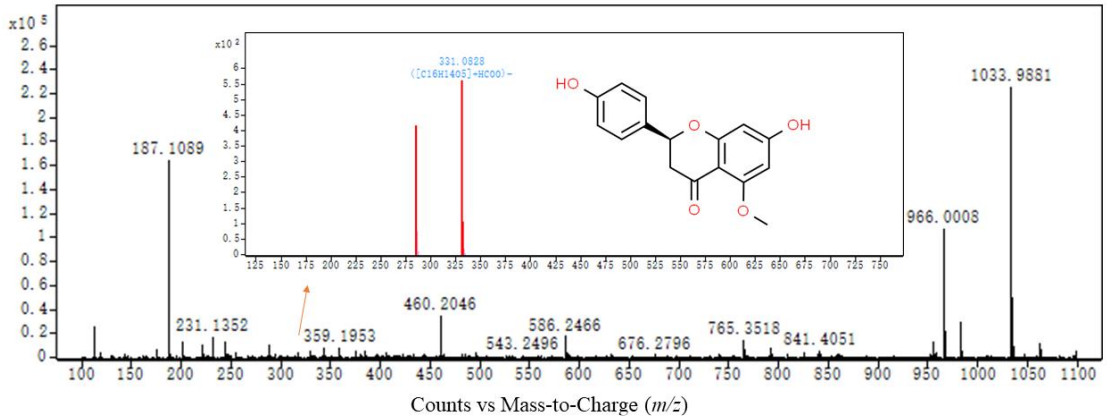

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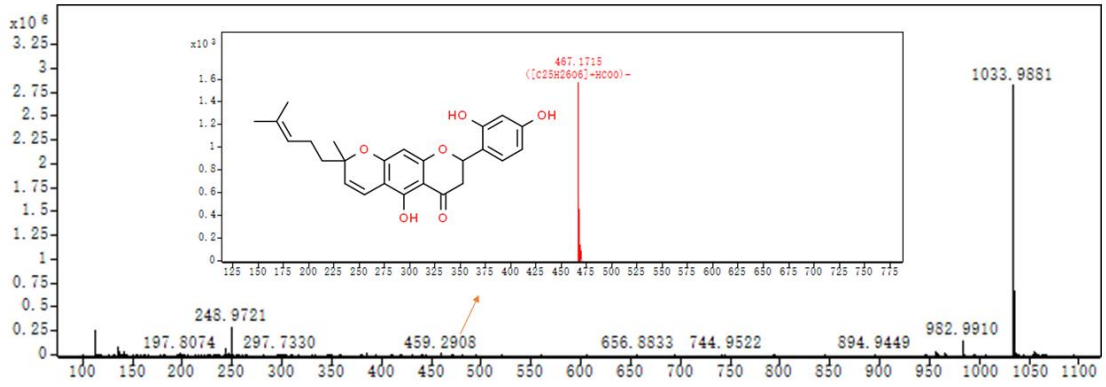

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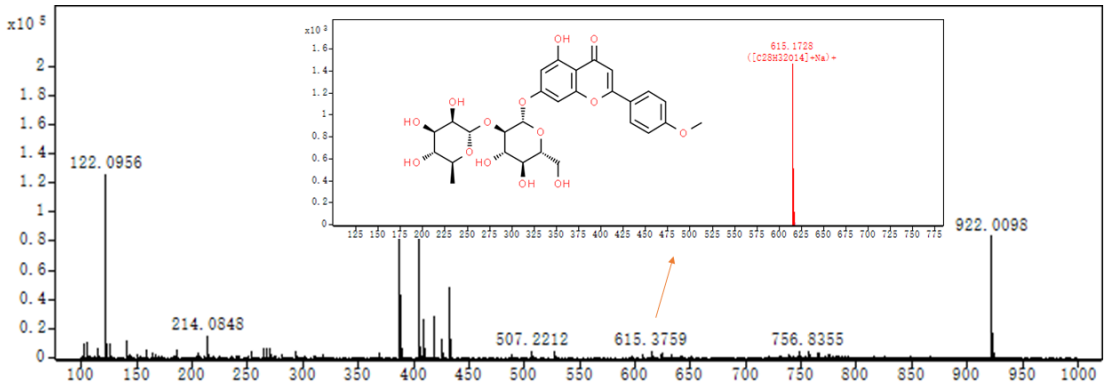

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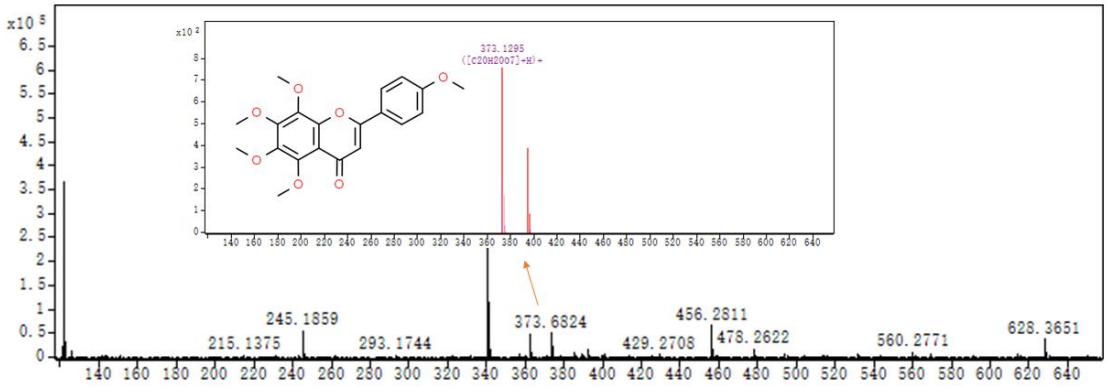

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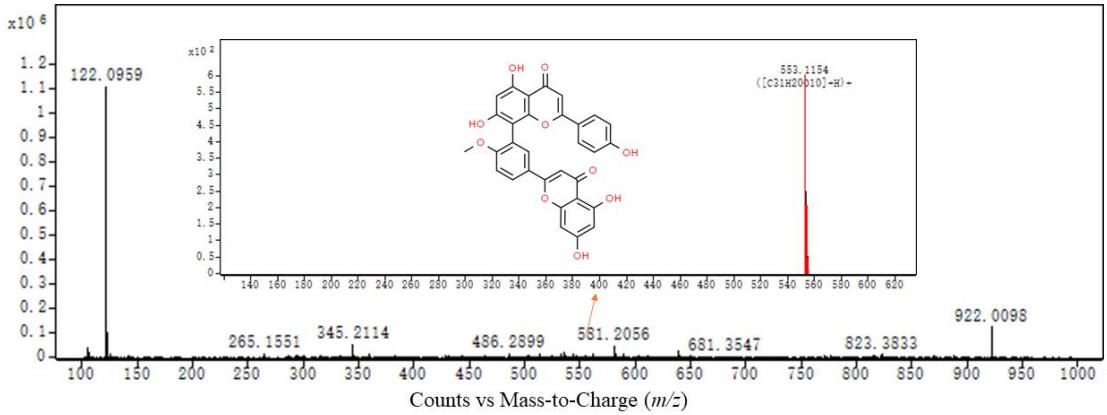

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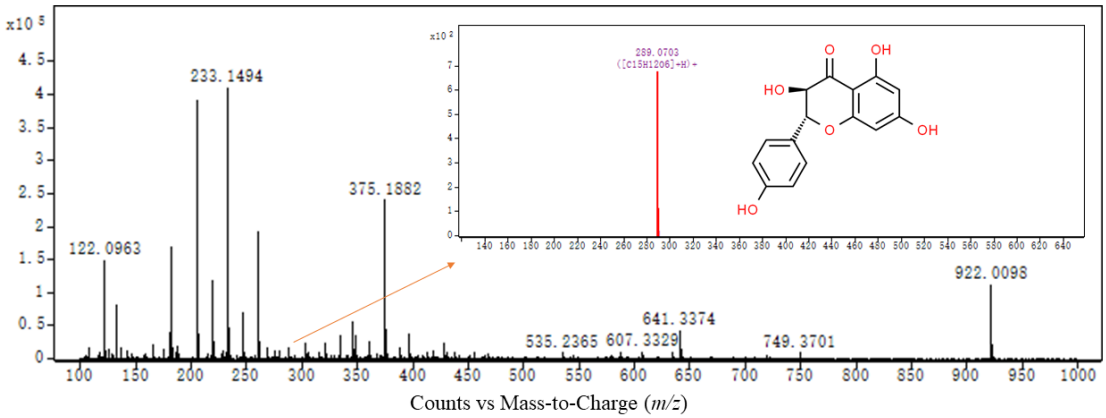

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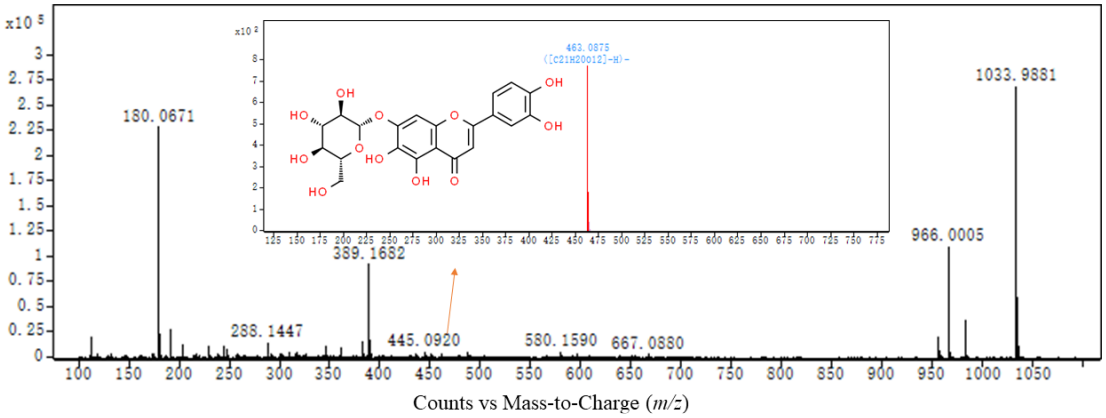

(compound 30)

Figure S2. MS spectra and structural formulae of 30 compounds identified in JPE after *in vitro* simulated gastrointestinal digestion